Special Issue

In-Situ Characterization of Heterogeneous Catalysts for Pollution Control

Message from the Guest Editors

Heterogeneous catalysis has attracted a lot of attention in recent years because of its wide potential for pollution control. The desired catalysts should meet low cost, environmental, as well as user-friendly requirements. All these requirements can only be met through 1) catalyst development and optimization following new approaches in design and synthesis or 2) having insight into interfacial chemistry taking place between the gas or liquid phase and the catalytic surface. By using in situ or operando characterization, deep mechanistic insight into the fundamentals of heterogeneous catalysis can be acquired. This Special Issue aims to cover the most recent progress and advances in the field of heterogeneous catalysts for pollution control. Submissions to this Special Edition are welcome in the form of original research papers that utilize in situ gas or liquid systems to better understand into the interfacial chemistry taking place between the gas or liquid phase and the catalytic surface.

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